## Dissolution UV/VIS Online Systems

Semi-Automated Dissolution System USP Apparatus 1, 2, 5 and 6

The ERWKA Dissolution Online System is the next step towards automatisation of the dissolution analytical process. The dissolution tester is equipped with an autosampling station, which, in combination with a pump, transports the sample to a connected UV/VIS spectrophotometer. The analysis of the sample is then started automatically.

Our dissolution systems do not reby the user - the dissolution-, sam-

quire extra handling pling-, analysis- and storing-process is completely automated, controlled and configured by our Disso.net software. In addition, the Disso.net software handles storing of results and can also be integrated into existing LIMS-systems.

Configured as On-/Offlinesystem, an automatic sample collector is added to the array of devices. The sample collector gathers the samples after the UV measurement either as reference sample or for later HPLC analysis.



## Component Highlights

System Highlights DT 720

- Full support of USP methods 1, 2, 5, 6
- 100% USP / EP compliant system
- Automated sampling with automatic USP height adjustment and optional measuring of temperature in each vessel
- Automated tablet drop available
- Pre-heating function
- Complete integration of different types of spectrophotometer
- High analytical flexibility due to additional integration of sample collector (e.g. for later HPLC measurement)
- Measuring of complete spectra
- Media replacement

### **Pumps**

- IPC peristaltic pump easy to handle, inert tubing material, 8 channel and 16 channels possible
- PVP piston pump for double filtration down to 0.22 µm for flat membrane filters, high precision, inert ceramic material pump heads, almost maintenance free

### ERWEKA SPM UV/VIS spectrophotometer

- True double-beam operation
- High throughput, low stray-light optics
- Pre-aligned deuterium and tungsten-halogen lamps
- Wide range of flow-through cuvettes with different pathlengths available

- High stability, high accuracy
- Fulfills all pharmacopoeia and regulatory performance tests

### Disso.net software Highlights

- Controls different types of spectrophotometer without the need of additional vendor software required
- Calculation of dissolution profiles via UV-measurement
- Easy recalculation of results
- 21 CFR Part 11 compliant
- MS SQL database, local or network installation
- Support for computer based ERWEKA dissolution systems, capable of testing USP methods 1, 2, 5 and 6
- Multiple System Suitability Tests for highest reliability
- Easy approach from top to bottom
- Semi-annual check of the photometer according EP

# Dissolution UV/VIS Online System

## Standard Online System with UV/VIS Spectrophotometer

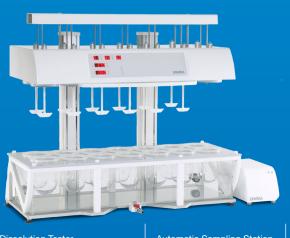


The online dissolution system consists of a DT 72x, an IPC 8 and connects UV/VIS spectrophotometer for online determination of dissolution rates. The system is managed by our Disso.net PC software



Dissolution Tester	Automatic Sampling Station	Peristaltic Pump	UV/VIS Spectrophotometer	PC + Disso.net Software
DT 726 / 727 / 728	ASS-8	IPC 8	ERWEKA SPM (Perkin Elmer Lambda 25 OEM) or Shimadzu 1800 or Agilent 8454	✓

## DT 141x Series Online System with UV/VIS Spectrophotometer



The UV/VIS Online system can also be configured with a DT 1412. It offers the possibility for one test with 12 tablets or two tests with 6 tablets.



Dissolution Tester	Automatic Sampling Station	Peristaltic Pump	UV/VIS Spectrophotometer	PC + Disso.net Software
DT 141x	ASS-14	IPC 16	Analytic Jena Specord 210 Plus + 2 x Cuvette changer	<b>√</b>

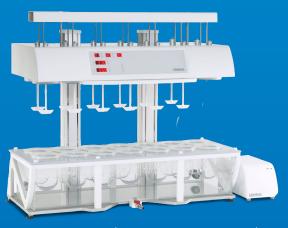
# Dissolution UV/VIS On-/Offline System

## On-/Offline System with DT 72x Series



Dissolution Tester	Automatic Sampling Station	Peristaltic Pump	UV/VIS Spectrophotometer	Sample Collector	PC + Disso.net Software
DT 726 / 727 / 728	ASS-8	IPC 8	ERWEKA SPM (Perkin Elmer Lambda 25 OEM) or Shimadzu 1800 or Agilent 8454	FRL 624	✓

## On-/Offline System with DT 1412



The DT 1412 with 12 test stations can also be configured as an UV/VIS On-/Offline system. It offers the possibility for one test with 12 tablets or two tests with 6 tablets.



Dissolution Tester	Automatic Sampling Station	Peristaltic Pump	UV/VIS Spectrophotometer	Sample Collector	PC + Disso.net Software
DT 1412	ASS-14	IPC 16	Analytic Jena Specord 210 Plus + 2 x cuvette changer	FRL 624-2	✓

## Technical Specifications

#### Sample Collector FRL 624 / 724 / 824

Auto sample collector with 6 to 8 channels for sampling up to 26 intervals; 1 driven dosing arm with 8 stainless steel dosing needles, RS 232 interface for external control by Disso.NET PC software.

## Sampling tubes and HPLC vials

26x 8 glass tubes of 12 ml capacity
18x 8 glass tubes of 25 ml capacity
26x 8 HPLC vials of 1.5 ml capacity
26x 8 HPLC vials of 4.0 ml capacity
Handling of septa-sealed HPLC vials and glass tubes

#### System Control with Disso.NET

The Software handles standard dissolution jobs, handles tasks and provides control over each single function and connected device.

- MS SQL database local or network installation
- Multiple System Suitability Tests for highest reliability
- Full audit trail according to 21 CFR Part 11 including date, time stamp, user ID
- Integrated workflow for approval and review of reports before publishing (paperless lab)
- pH-change support according USP-Method A and B
- Easy XML, PDF, Excel ex-/import for LIMS communication
- Semi-annual check of the photometer accoding EP
- Daily check of the photometer